Performance Data Sheet

AE4460Y-AA3C

General Information

Model	AE4460Y-AA3C	**Refrigerant**	R-134a
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
5	Btu/h	3040	2850	2660	2460	2260	2070	1890
	Watts	420	431	445	460	474	484	489
	Amps	4.55	4.63	4.74	4.86	4.96	5.04	5.06
	Lb/h	38.9	38.1	37.2	36.3	35.3	34.4	33.6
10	Btu/h	3470	3270	3050	2830	2600	2380	2160
	Watts	445	456	471	487	503	517	525
	Amps	4.73	4.80	4.91	5.04	5.17	5.27	5.34
	Lb/h	44.5	43.7	42.8	41.7	40.6	39.4	38.3
15	Btu/h	3930	3710	3480	3230	2970	2720	2460
	Watts	471	482	497	515	533	550	562
	Amps	4.92	4.99	5.10	5.24	5.39	5.52	5.62
	Lb/h	50.6	49.8	48.9	47.7	46.5	45.1	43.8
20	Btu/h	4440	4200	3940	3660	3380	3090	2800
	Watts	498	509	525	544	564	584	600
	Amps	5.14	5.19	5.30	5.45	5.62	5.77	5.90
	Lb/h	57.1	56.4	55.5	54.3	53.0	51.5	49.9
25	Btu/h	4970	4720	4430	4130	3820	3500	3170
	Watts	528	538	554	574	596	618	637
	Amps	5.37	5.41	5.52	5.68	5.85	6.03	6.19
	Lb/h	64.1	63.6	62.7	61.5	60.1	58.5	56.8
30	Btu/h	5550	5270	4960	4640	4300	3940	3580
	Watts	558	568	584	605	629	653	675
	Amps	5.62	5.65	5.76	5.92	6.11	6.31	6.50
	Lb/h	71.6	71.2	70.5	69.4	67.9	66.3	64.4
35	Btu/h	6150	5860	5530	5180	4800	4420	4020
	Watts	591	600	616	637	662	688	714
	Amps	5.90	5.92	6.01	6.17	6.37	6.59	6.81
	Lb/h	79.6	79.4	78.8	77.8	76.4	74.7	72.7
40	Btu/h	6790	6480	6120	5750	5340	4920	4490
	Watts	625	633	649	671	697	725	753
	Amps	6.20	6.20	6.29	6.44	6.65	6.89	7.13
	Lb/h	88.1	88.1	87.7	86.8	85.4	83.7	81.7

45	Btu/h	7460	7130	6750	6350	5920	5460	4990
	Watts	662	668	683	705	732	762	792
	Amps	6.53	6.50	6.58	6.73	6.95	7.19	7.46
	Lb/h	97.1	97.4	97.2	96.4	95.2	93.5	91.4
50	Btu/h	8170	7810	7410	6980	6520	6030	5520
	Watts	700	704	718	741	768	800	832
	Amps	6.88	6.83	6.89	7.04	7.26	7.52	7.80
	Lb/h	107	107	107	107	106	104	102
55	Btu/h	8900	8530	8110	7650	7150	6630	6090
	Watts	740	742	756	777	806	838	873
	Amps	7.26	7.19	7.23	7.37	7.59	7.86	8.16
	Lb/h	116	117	118	117	117	115	113
60	Btu/h	9670	9270	8830	8340	7820	7260	6680
	Watts	782	782	794	816	844	878	915
	Amps	7.66	7.56	7.59	7.72	7.94	8.22	8.53
	Lb/h	127	128	129	129	128	127	125

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.142851E+03	6.407897E+02	7.119995E+00	3.253518E+01
C2	7.959165E+01	9.254969E+00	9.294393E-02	6.440078E-01
C3	8.849649E+00	-9.198997E+00	-9.647465E-02	1.531761E-01
C4	7.920039E-01	6.266471E-02	6.788269E-04	3.219289E-03
C5	2.105016E-01	-1.212875E-01	-1.466479E-03	8.78287E-03
C6	-2.547313E-01	1.047554E-01	1.060845E-03	-2.341965E-03
C7	-8.383105E-04	6.797679E-05	1.441944E-06	3.348398E-06
C8	-4.815633E-04	-4.290882E-04	-4.471742E-06	7.750095E-05
C9	-3.357440E-03	7.670039E-04	8.489687E-06	-5.807298E-05
C10	8.252691E-04	-3.477026E-04	-3.505047E-06	7.829763E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature